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PATENT ABSTRACTS OF JAPAN

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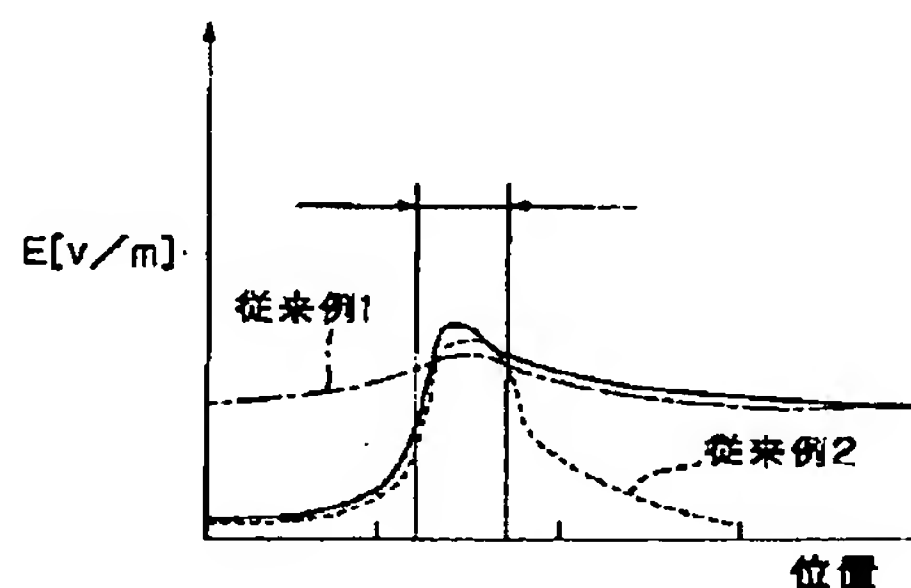
(54) **IMAGE FORMING DEVICE**

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(57) Abstract:

PROBLEM TO BE SOLVED: To suppress generation of ozone and nitrogen oxides and further to prevent toner splashing and generation of retransfer at the time of transferring a toner image on an intermediate transferring belt in an image forming device typically provided with an intermediate transferring body.

SOLUTION: The image forming device is provided with a contact transfer member such as a transfer roller and the intermediate transferring belt has anisotropic electrical conductivity in which electrical resistance is relatively low in a thickness direction of the intermediate transferring belt and is relatively high in a moving direction of the intermediate transferring belt at least at a transfer position. Further the image forming device has a post nip part voltage impressing means for impressing voltage of the same polarity as that of transfer voltage impressed to the transfer position by the contact transfer member to a post nip part of the intermediate transferring belt being continuous to the transfer position at a downstream side in a belt moving direction.



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Derwent WPI

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Image forming device e.g. copier has voltage supplying unit
which impresses voltage of like pole property to specific nip portion
along downstream side of moving direction

Patent Assignee: FUJI XEROX CO LTD (XERF)

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JP 2002229346 A 20020814 JP 200130978 A 20010207 200269 B

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JP 2002229346 A 30 G03G-015/16

Abstract (Basic): **JP 2002229346 A**

NOVELTY - The transfer belt has low electrical resistance in
thickness direction and high electrical resistance along moving
direction. A voltage supplying unit impresses voltage of like pole
property to specific nip portion along downstream side of belt moving
direction, between intermediate transfer belt and transfer roller.

USE - Image forming device such as copier, facsimile and printer.

ADVANTAGE - Restrains generation of ozone or nitrogen oxide by
impressing of voltage to nip portion and thus prevents toner scattering
at the time of transferring toner image.

DESCRIPTION OF DRAWING(S) - The figure shows the applied voltage
current characteristics of the image forming device. (Drawing includes
non-English language text).

pp; 30 DwgNo 14/28

Title Terms: IMAGE; FORMING; DEVICE; COPY; VOLTAGE; SUPPLY; UNIT; IMPRESS;
VOLTAGE; POLE; PROPERTIES; SPECIFIC; NIP; PORTION; DOWNSTREAM; SIDE; MOVE
; DIRECTION

Derwent Class: P84; S06

International Patent Class (Main): G03G-015/16

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): S06-A04A2; S06-A05B2